Please add the following new claims:

1   11.   (New) A direct-sequence spread spectrum communication system comprising:

2   a first encoder for creating a first encoded pseudo-noise code, the first encoded

3   pseudo-noise code corresponding to a value of a signal to be transmitted; and

4   a first modulator for modulating a first signal with the first encoded pseudo-noise

5   code.

1   12.   (New) The system of claim 11 further comprising:

2   a second encoder for creating a second encoded pseudo-noise code; and

3   a second modulator for modulating a second signal with the second encoded

4   pseudo-noise code.

1   13.   (New) The system of claim 12 further comprising:

2   a first demodulator for demodulating the first signal; and

3   a second demodulator for demodulating the second signal.

1   14.   (New) The system of claim 13 wherein the first demodulator demodulates the

2   first signal based upon a first correlator corresponding to the first encoded pseudo-noise

3   code and the second demodulator demodulates the second signal based upon a second

4   correlator corresponding to the second encoded pseudo-noise code.

1   15.   (New) The system of claim 11 wherein the first encoder creates the first encoded

2   pseudo-noise code by modifying a first pseudo-noise code.

1   16.   (New) The system of claim 15 wherein the first encoded pseudo-noise code is the

2   first pseudo-noise code with one bit inverted.

1   17.   (New) The system of claim 16 wherein the position of the one inverted bit of the   ok

2   first encoded pseudo-noise code corresponds to the value of the first signal.

ok

1   18.   (New) The system of claim 13 wherein the first demodulator demodulates the

2   first signal into a value corresponding to the position of an inverted bit of the first

3   encoded pseudo-noise code, and the second demodulator demodulates the second signal

4   into a value corresponding to the position of an inverted bit of the second encoded

5   pseudo-noise code.

1   19.   (New) The system of claim 12 wherein the first encoded pseudo-noise code

2   corresponds to a first user and the second encoded pseudo-noise code corresponds to a

3   second user.

1   20.   (New) The system of claim 11 wherein the first encoder comprises a table of

2   orthogonal pseudo-noise codes.